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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

Segal et al.

Docket Number: TI-30340

Filed: 04/25/2000

Examiner: David B. Lugo

Serial No: 09/230,069

Art Unit: 2634

Title: BLIND DFE AND PHASE CORRECTION

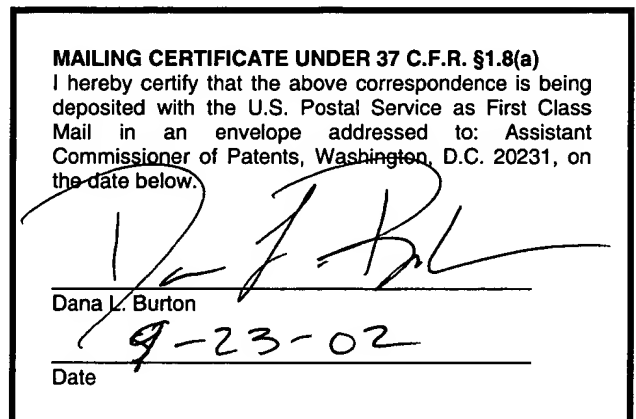
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Technology Center 2600

REPLY PURSUANT TO 37 C.F.R. § 1.111

Assistant Commissioner for Patents
Washington, DC 20231



Dear Sir:

In response to the Office Action dated May 23, 2002, please amend the above-identified patent application as follows:

IN THE SPECIFICATION:

Beginning on page 5, line 30 and ending on page 6, line 13, replace this paragraph with the following paragraph. [

Figure 5 illustrates the DFE (Decision Feedback Equalizer). The DFE's input sequence $s_2[n]$ is first rotated by an adaptive rotator 501, by an angle $\theta[n]$. The rotated sequence is then filtered by an FFE (Feed Forward Equalizer) FIR filter 502 whose taps' values are $c_n[1]..c_n[M]$ ($M \geq 1$), to produce output signal $s_4[n]$. Signal $s_4[n]$ is then summed 507 with the output of an adaptive FIR filter 504 whose taps are $d_n[1]..d_n[N]$, $N \geq 0$, and which is driven by the sequence of detected symbols $\hat{a}[n]$. The

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